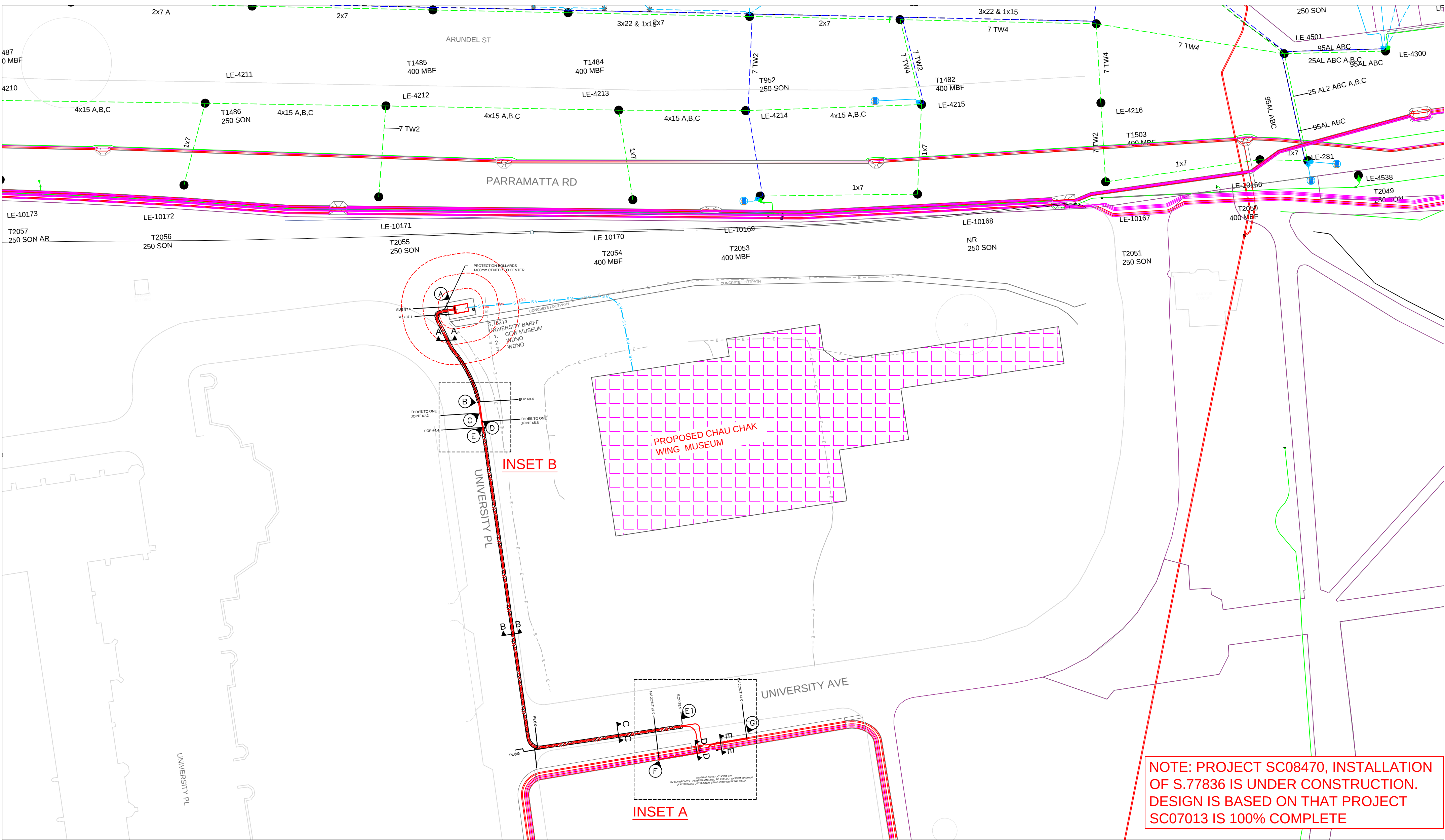




PROJECT LOCATION PLAN : SYDNEY UNI, CAMPERDOWN SYD UBD , P14 G01

NOTES

- CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
- THE ASP1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
- THE ASP1 MUST MINIMISE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED WHEREVER POSSIBLE. AT LEAST FOUR (4) CLEAR BUSINESS DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 90 OF THE NATIONAL ENERGY RETAIL RULES.
- SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT A SUITABLE TIME FOR THE INTERRUPTION CANNOT BE MUTUALLY AGREED TO WITH THE AFFECTED CUSTOMER(S).
- THE ASP1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- FOR KIOSK AND CHAMBER TYPE SUBSTATIONS IN THE HUNTER AREAS, ARRANGE PHASING OF 11kV AND LOW VOLTAGE TRANSFORMER TERMINATIONS TO ACHIEVE DYN 11 INTERCONNECTION CAPABILITIES.
- THE ASP1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP.
- THE ASP1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS). THE FOLLOWING AUSGRID ASSETS ARE REGISTERED AS CONTAINING ASBESTOS.
- VEHICLE PROTECTION TO BE PROVIDED AS PER NS141. ALLOW FOR 4 X SHALLOW SURFACE MOUNT BOLLARDS, INSTALLED OUTSIDE OF SUBSTATION EASEMENT. INSTALLED OUTSIDE OF SUBSTATION EASEMENT, CENTURIAN C90SM OR EQUIVALENT APPROVED, POWDER-COATED SAFETY YELLOW. BOLLARDS TO BE REMOVABLE AND LOCKABLE
- HANDRAIL IN ACCORDANCE WITH CURRENT NATIONAL CONSTRUCTION CODE/BUILDING CODE AUSTRALIA (NCC/BCA) & AUSROAD GUIDE TO ROAD DESIGN, TO BE PROVIDED IMMEDIATELY OUTSIDE OF PROPOSED SUBSTATION EASEMENT ON THE RETAINING WALL TO PREVENT FALLS DOWN BATTER.
- VEHICLE PARKING TO BE PROVIDED FOR ALL AUSGRID STAFF TO CARRY OUT ALL WORKS.
- FINISH SUBSTATION SITE AS PER NS141 CLAUSE 7.7.

Diagram illustrating a vertical curve. The curve is shown as a red line segment between points B and D. Point C is the lowest point on the curve. Point E is the point of vertical intersection. The diagram includes labels for 'THREE TO ONE JOINT 67.2', 'EOP 69.4', 'THREE TO ONE JOINT 65.5', and 'EOP 64.4'.

SCALE 1 : 500

20 40 METRES

10 30 50

"FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATION LOCATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELLED AS PER CERTIFIED DESIGN DRAWING ."

THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.

THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUGSRD'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.

DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.

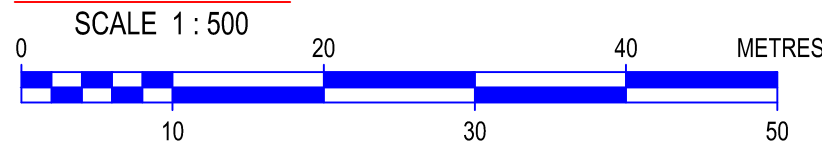
ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY
AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

INSET B

20160817	1	2	3	4	5	6	7	8	9	10	11	12
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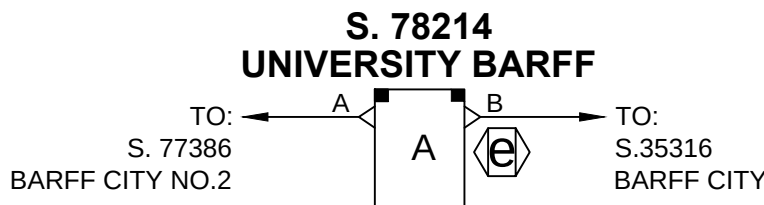


SITE PLAN



ASP LEVEL 2 WORK
ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

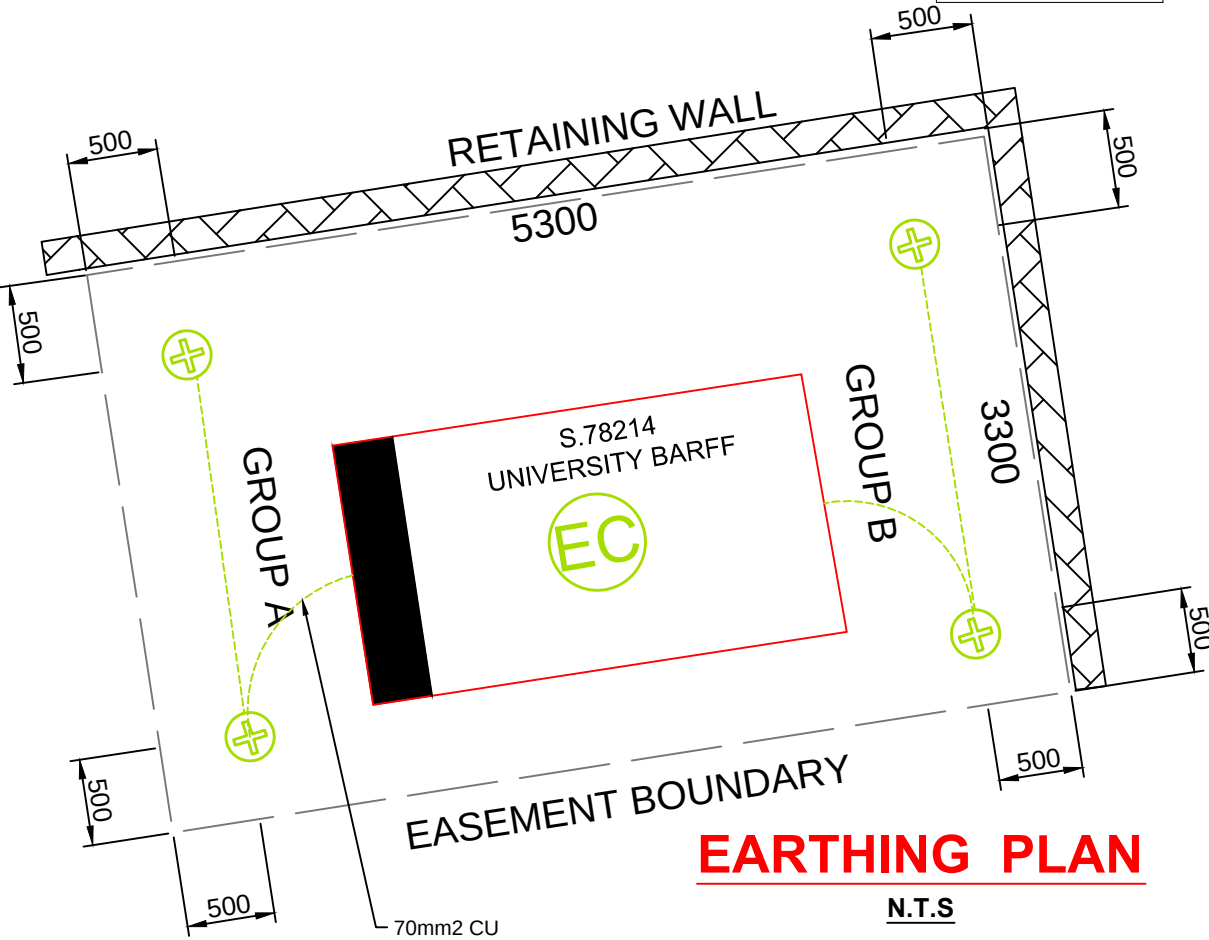


LV DISTRIBUTOR DETAILS	
DIST	DESTINATION
1	CHAU CHAK WING MUSEUM
2	WDNO(0/400)
3	WDNO(0/400)

KIOSK SUBSTATION DETAILS	
SUBSTATION NAME:	UNIVERSITY BARFF
SUBSTATION NUMBER:	78214
ADDRESS:	3000 PARRAMATTA ROAD, CAMPERDOWN
SUBSTATION TYPE:	KL TYPE
SIZE (kVA):	1000 kVA
VECTOR GROUP:	Dyn 1
TAP SETTING:	11000/433
HV SWITCHGEAR:	ABB SAFELINK RMI
HV FUSE DETAILS:	100A SIBA 30.020.93.100
LOAD CYCLE:	A: COMMERCIAL/INDUSTRIAL
PHASING DETAIL:	TO BE CONFIRMED ON SITE
LOW VOLTAGE BOARD:	1600/400/400
TRANSF. LV LINK RATING:	1600
CCT1 LV FUSE SIZE (Amps):	1200/1200 (1200A 165mm CENTRES ALSTOM)
CCT2 LV FUSE SIZE (Amps):	0/400 (400A 92mm CENTRES BELL/MEM "J")
CCT3 LV FUSE SIZE (Amps):	0/400 (400A 92mm CENTRES BELL/MEM "J")
CCT4 LV FUSE SIZE (Amps):	N/A
CONFIGURE AS Dyn11:	NO
EARTHING REQUIREMENTS:	AS PER NS116(SME) & SITE SPECIFIC EARTHING DESIGN
SUBSTATION PIERING:	AS PER DRAWING No. 151572
EASEMENT PLAN DETAIL:	AS PER SHEET 3 OF 5

SUBSTATION EARTHING AS BUILT TABLE(STANDARD MINIMUM EARTHING (SME) APPLIES. REFER TO NS116 AND AUSGRID DWG 167433

GROUP A - HV ELECTRODES		
	DESIGN	AS BUILT
NUMBER OF ELECTRODES	2	
DEPTH OF EACH ELECTRODE	5.4	
SPACING BETWEEN ELECTRODES	2.3	
MAX RESISTANCE - NORMAL	9.04	-
MAX RESISTANCE - DROUGHT	14.27	-
MEASURED	-	
GROUP B - LV ELECTRODES		
	DESIGN	AS BUILT
NUMBER OF ELECTRODES	2	
DEPTH OF EACH ELECTRODE	5.4	
SPACING BETWEEN ELECTRODES	2.3	
MAX RESISTANCE - NORMAL	9.04	-
MAX RESISTANCE - DROUGHT	14.27	-
MEASURED	-	
RESISTANCE	8.22	
MIN SEPARATION TO TELCO ASSETS	1.2	
MIN SEPARATION TO BWTWEEN HV AND LV AND / OR MEN ELECTRODES	4.3	



REFER TO NS116 AND EARTHING DESIGN SPECIFICATION & AS BUILT INSTALLATION REPORT XCZ020224

CAD DRAWING	NO.
AMENDMENTS	
REV'D - ORIGINAL ISSUE	
DRAWN: BY A. K. 11/01/2017	
CHECKED: BY V. D. 11/01/2017	
APPROVED: BY V. D. 11/01/2017	
SCALE: 1:500	
DRAWN: BY A. K. 01/11/2017	
CHECKED: BY V. D. 01/11/2017	
APPROVED: BY V. D. 01/11/2017	



DESIGNED BY	A. KONG
AUTH NO.	2349/05
SUBMIT DATE	SUBMITTED 01/11/2017
LGA	CITY OF SYDNEY
MAP REF	P14, K01
AUSGRID REF	LE62
PRJ/TRAK No.	XCZ020224

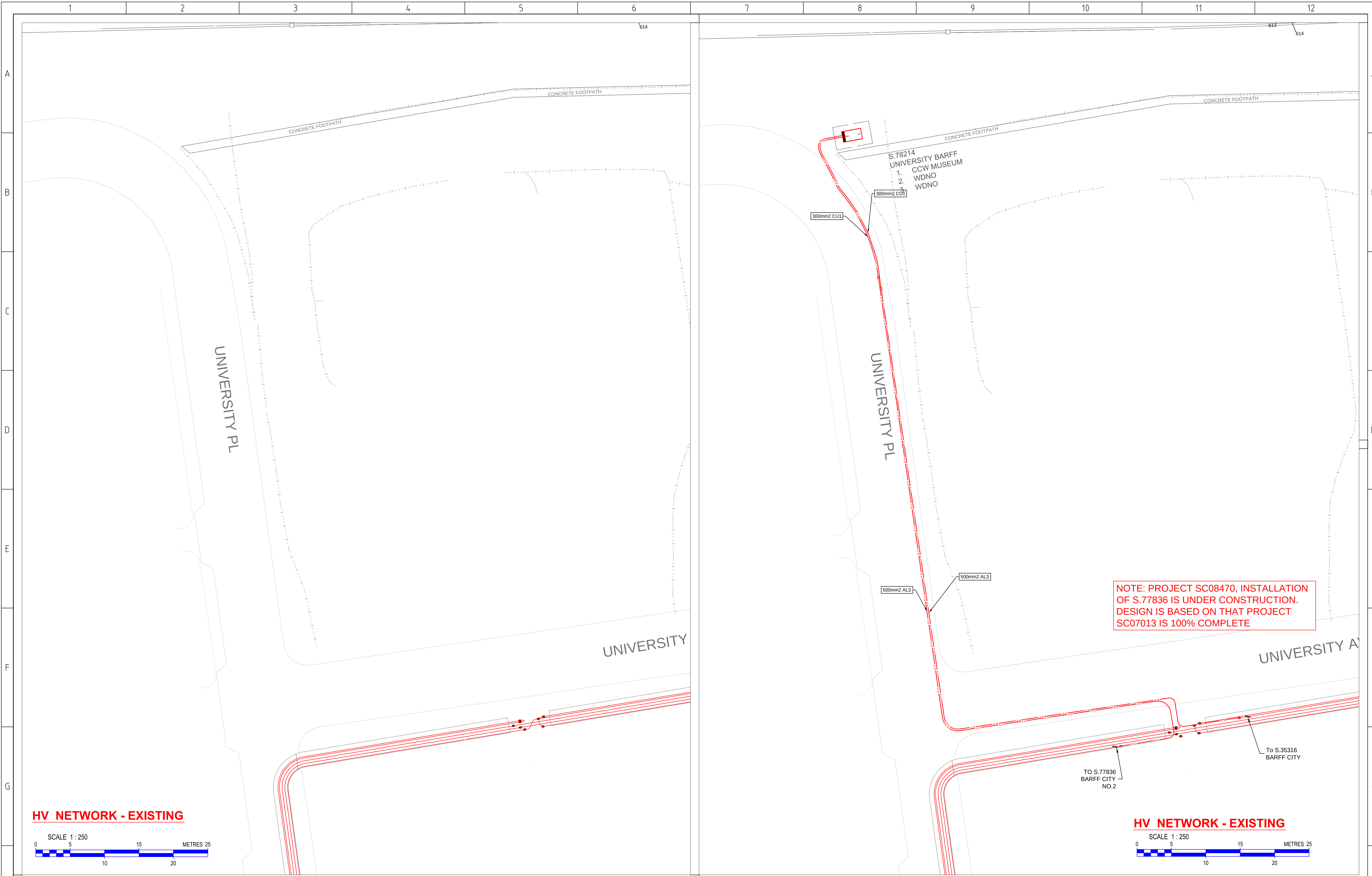
ESTABLISH L TYPE KIOSK SUB
S78214 UNIVERSITY BARFF
CCW MUSEUM
UNIVERSITY OF SYDNEY
CAMPERDOWN

ASSOCIATED DRAWINGS

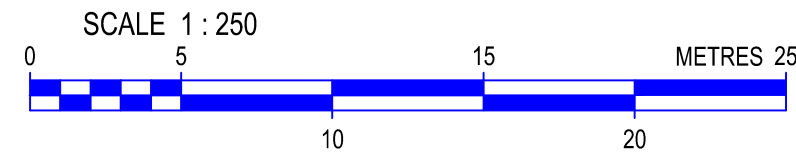
CERTIFICATION NUMBER 1064328/20171102A1

AUSGRID PROJECT No. SC09773

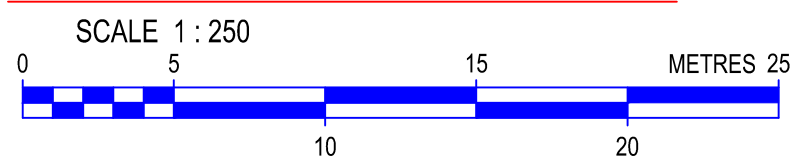
SHEETS 3 of 5



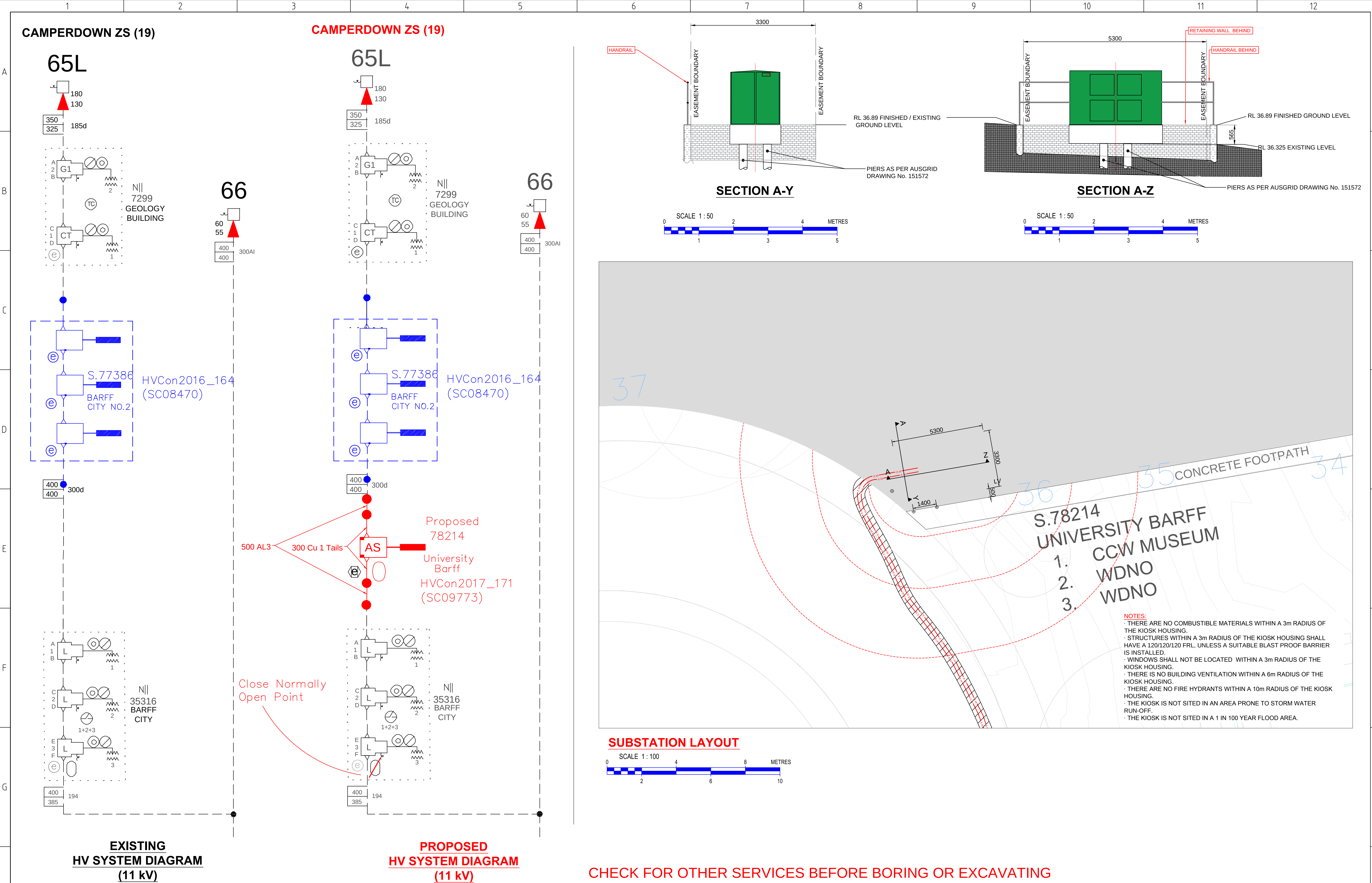
HV NETWORK - EXISTING



HV NETWORK - EXISTING



CAD DRAWING NO.	AMENDMENTS										20160817
	REV'D - ORIGINAL ISSUE										
	DRAWN : BY A. K. 18/09/2017										
	CHECKED : BY V. D. 18/09/2017										
	APPROVED : BY V. D. 18/09/2017										
	REV'D - 1200A FUSE UPDATED TO 1200A										
	DRAWN : BY A. K. 01/11/2017										
	APPROVED : BY V. D. 01/11/2017										



20160817	CAD DRAWING	AMENDMENTS	REV'D - ORIGINAL ISSUE	DRAWN BY: A. KONG CHECKED BY: D. KONG APPROVED BY: D. KONG DATE: 11/11/2017	DRAWN BY: A. KONG CHECKED BY: D. KONG APPROVED BY: D. KONG DATE: 11/11/2017	ASSOCIATED DRAWINGS	CERTIFICATION NUMBER	1064328/20171102A1	SHEET 5 of 5	AMD 1	ESTABLISH L TYPE KIOSK SUBSTATION S78214 UNIVERSITY BARFF CCW MUSEUM UNIVERSITY OF SYDNEY CAMPERDOWN